FIG. 1

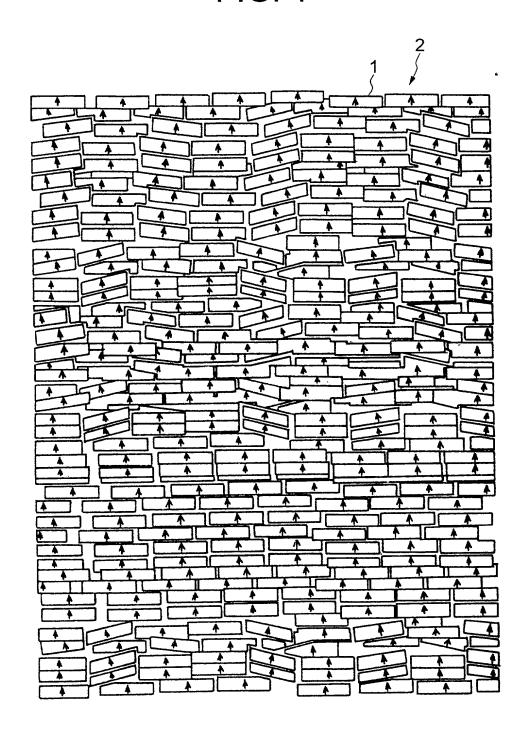


FIG. 2A

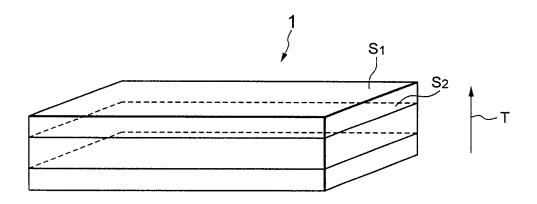


FIG. 2B

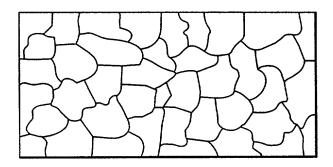


FIG. 3

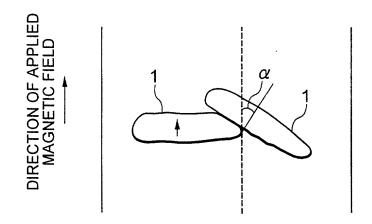


FIG. 4

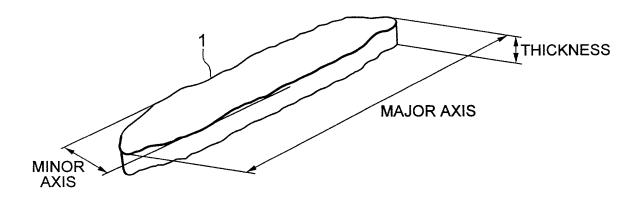


FIG. 5A

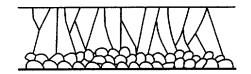


FIG. 5B

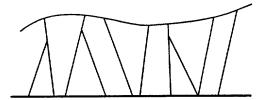


FIG. 5C

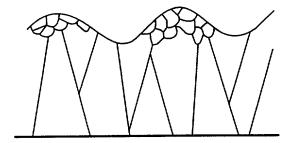
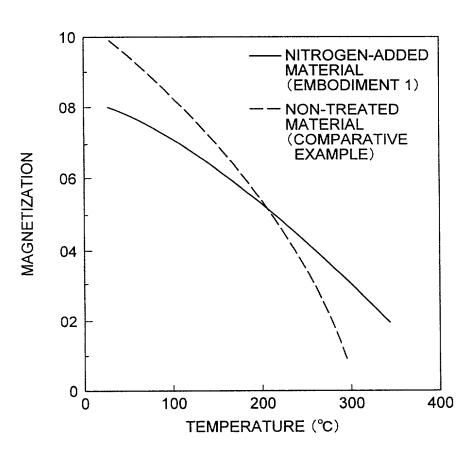
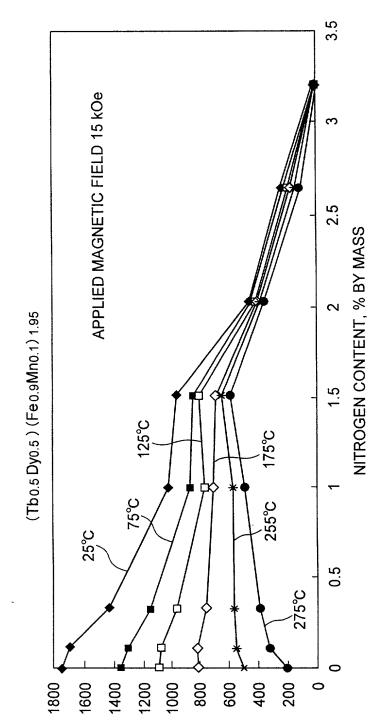


FIG. 6



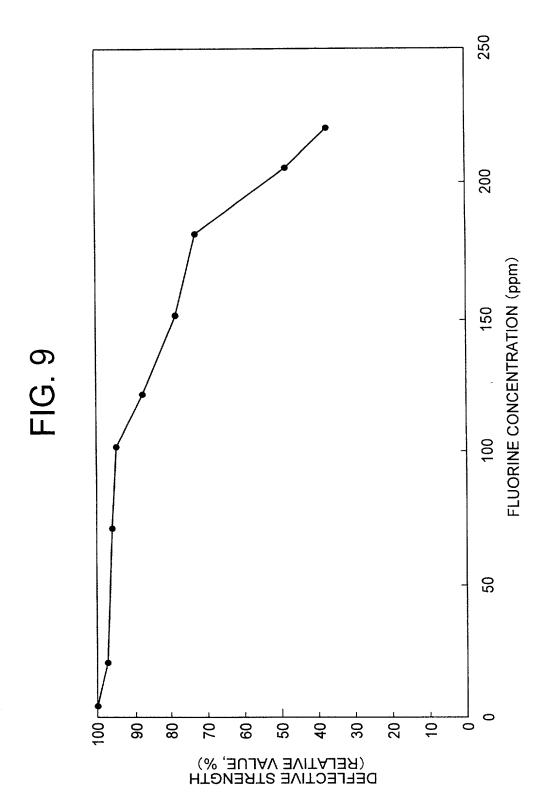
The first first first first that the first first



MAGNETOSTRICTION, ppm

OXYGEN CONCENTRATION (ppm) DEFLECTIVE STRENGTH (RELATIVE VALUE, %)

MATERIAL AND MANUFACTURING
METHOD THEREOF, AND
MAGNETOSTRICTIVE ACTUATOR AND
MAGNETOSTRICTIVE SENSOR THEREWITH
Inventor(s): Tomohisa ARAI et al.
DOCKET NO.: 017447/0171



Title: GIANT MAGNETOSTRICTIVE

FIG. 10

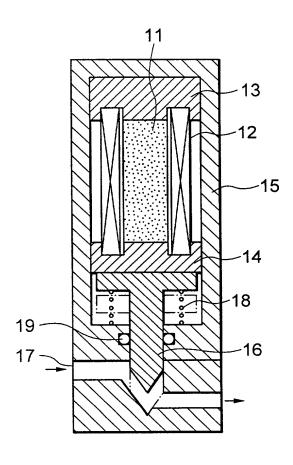


FIG. 11

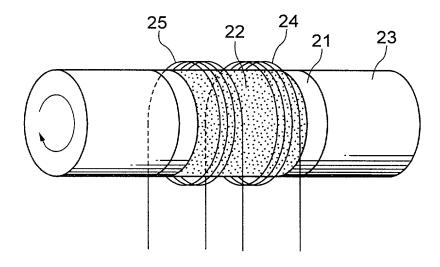
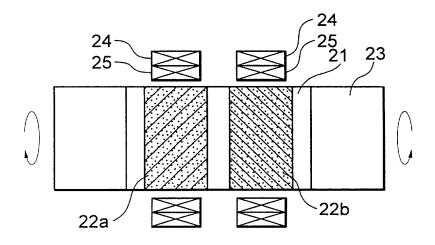
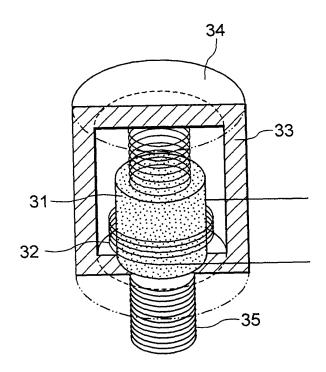


FIG. 12



+45° ANISOTROPIC -45° ANISOTROPIC

FIG. 13



the Bart and Bart and the Bart a

FIG. 14

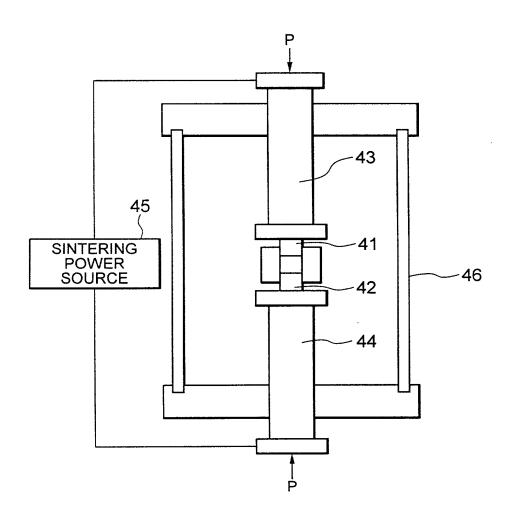
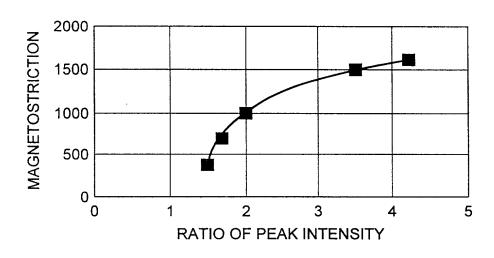
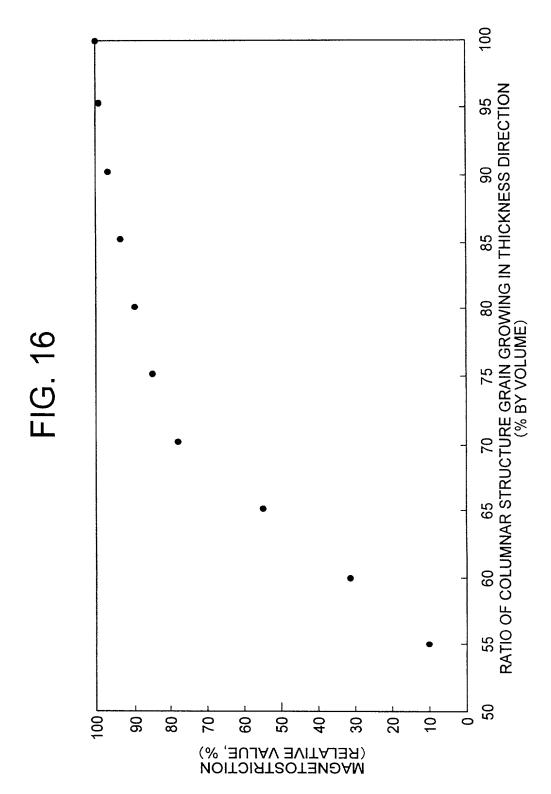


FIG. 15



The Hall hall had been here



Title: GIANT MAGNETOSTRICTIVE
MATERIAL AND MANUFACTURING
METHOD THEREOF, AND
MAGNETOSTRICTIVE ACTUATOR AND
MAGNETOSTRICTIVE SENSOR THEREWITH
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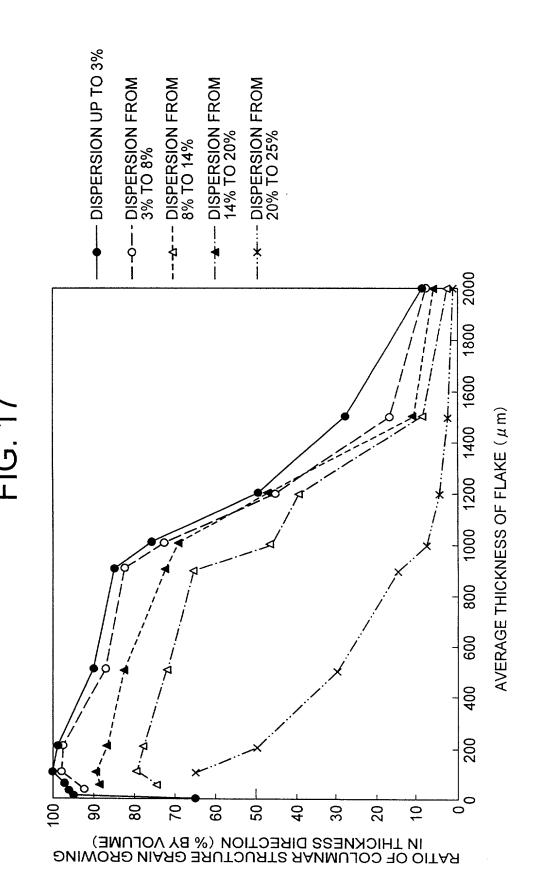


FIG. 18

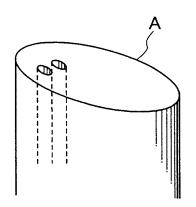
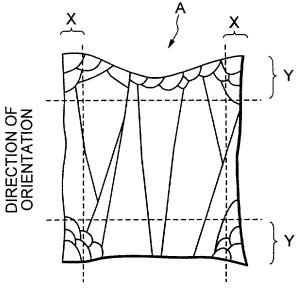


FIG. 19



COOLED SURFACE